

Name _____

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

- 1) Science is a body of knowledge that
 - A) describes natural phenomena quantitatively.
 - B) includes testable ideas and reproducible data.
 - C) is continually being refined.
 - D) All of the above choices are correct.
 - E) None of the above choices are correct.

- 2) The easiest way for you to measure the distance between the Earth and the moon is to place in your line of sight to the moon a
 - A) telescope. B) magnifying glass.
 - C) coin. D) meter stick.

- 3) The safest way for you to view the sun is with
 - A) colored sunglasses. B) binoculars.
 - C) a telescope. D) pinhole images.

- 4) In addition to the scientific method, scientific discoveries have been made through
 - A) blind experimentation.
 - B) trial and error.
 - C) accidental discovery.
 - D) all of the above.
 - E) none of these

- 5) In science, an educated guess is a
 - A) theory. B) hypothesis. C) both of these

- 6) In science, facts
 - A) are absolute. B) are more important than theories.
 - C) may change. D) mean very little.

- 7) The synthesis of a large collection of information that contains well-tested and verified hypotheses about certain aspects of the world is known as a scientific
 - A) law or principle.
 - B) theory.
 - C) fact.
 - D) hypothesis.
 - E) none of these

- 8) A scientific hypothesis may turn out to be right or it may turn out to be wrong. If it is a valid hypothesis, there must be a test for proving it.
 - A) right. B) wrong.

- 9) Of the sciences known as physics, chemistry, and biology, the most basic is
- A) biology.
 - B) physics.
 - C) chemistry.
 - D) none in particular, as each may be considered fundamental.
- 10) Which of the following involves passion, talent, and intelligence?
- A) science
 - B) art
 - C) music
 - D) literature
 - E) all of these
- 11) A truly educated person is knowledgeable about
- A) religion. B) the arts. C) science. D) all of these
- 12) Science, art, and religion do not contradict one another because
- A) if you choose the right one, you can forget the other two.
 - B) if you choose religion and art, you can forget about science.
 - C) if you choose science, you can forget about religion and art.
 - D) all three have different domains.
- 13) Which of the following is a scientific statement?
- A) There are parts of the universe that will never be found by man.
 - B) The moon is made of green cheese.
 - C) There are things we will never know about.
 - D) Matter is filled with undetectable particles.
 - E) none of these
- 14) When a scientist is dishonest and reports false information, he or she
- A) gets no second chance in the scientific community.
 - B) like in so many other professions, will be excused by the scientific community.
- 15) Eratosthenes found the circumference of Earth by
- A) using a telescope to look at the stars.
 - B) philosophical debate and reasoning.
 - C) measuring the angular distance between Syene and Alexandria.
 - D) using a satellite global positioning system.
 - E) None of the above choices are correct.